

Event 9 -- Opening of the Western Mediterranean (Ligurian-Provençal basin) during the rotation of the Corsica-Sardinia block (23 - 15 Ma)

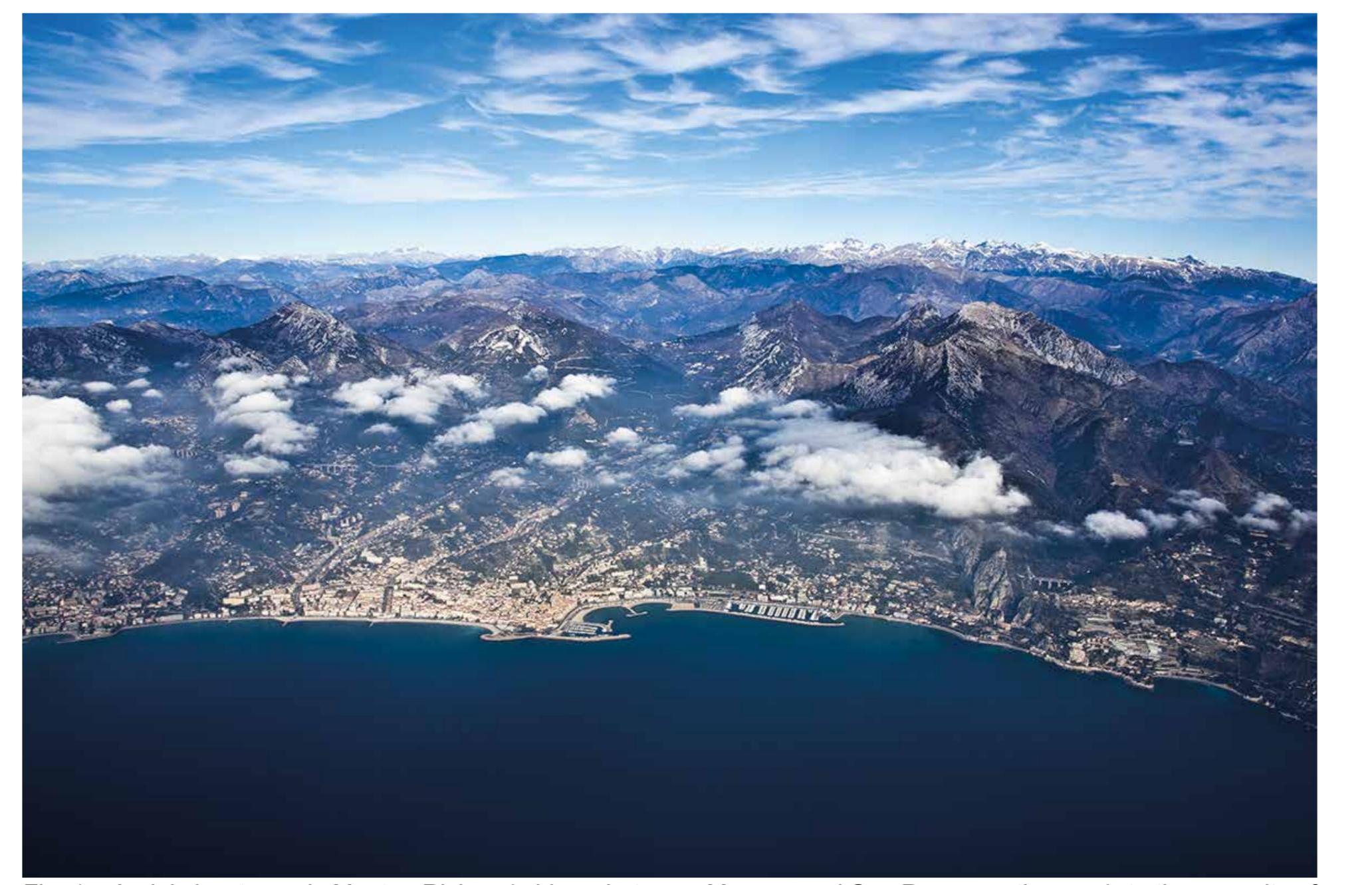
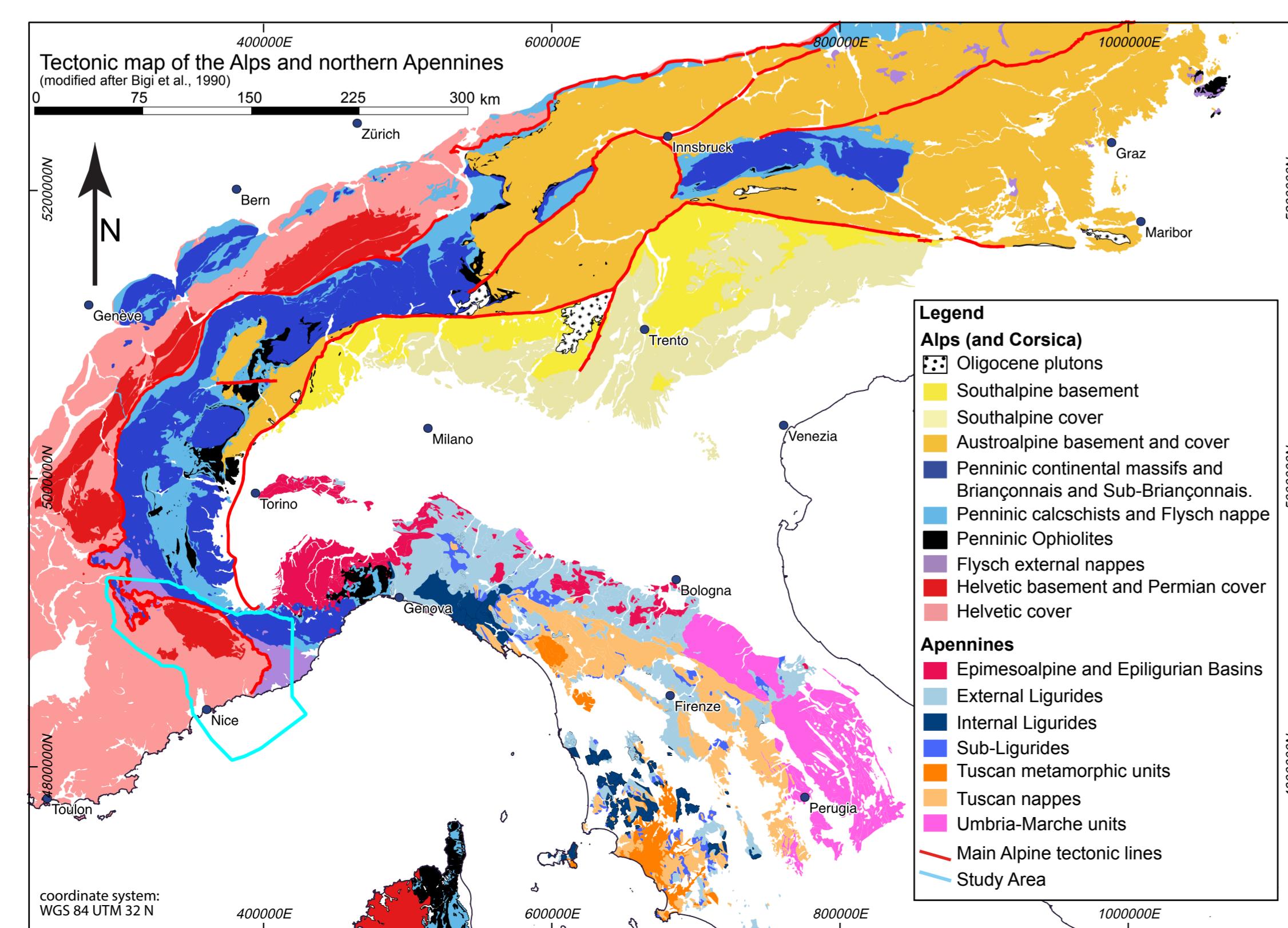
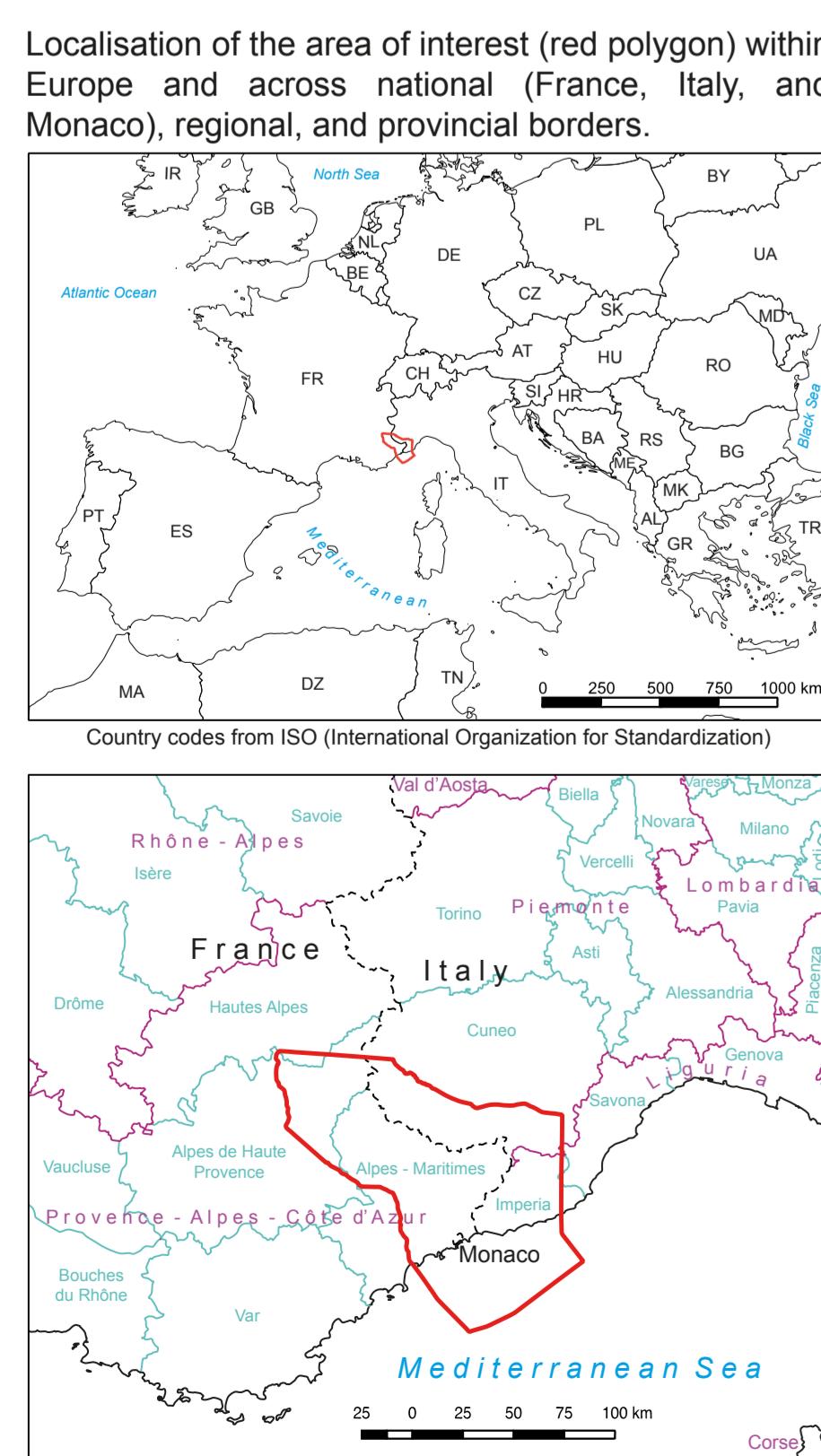
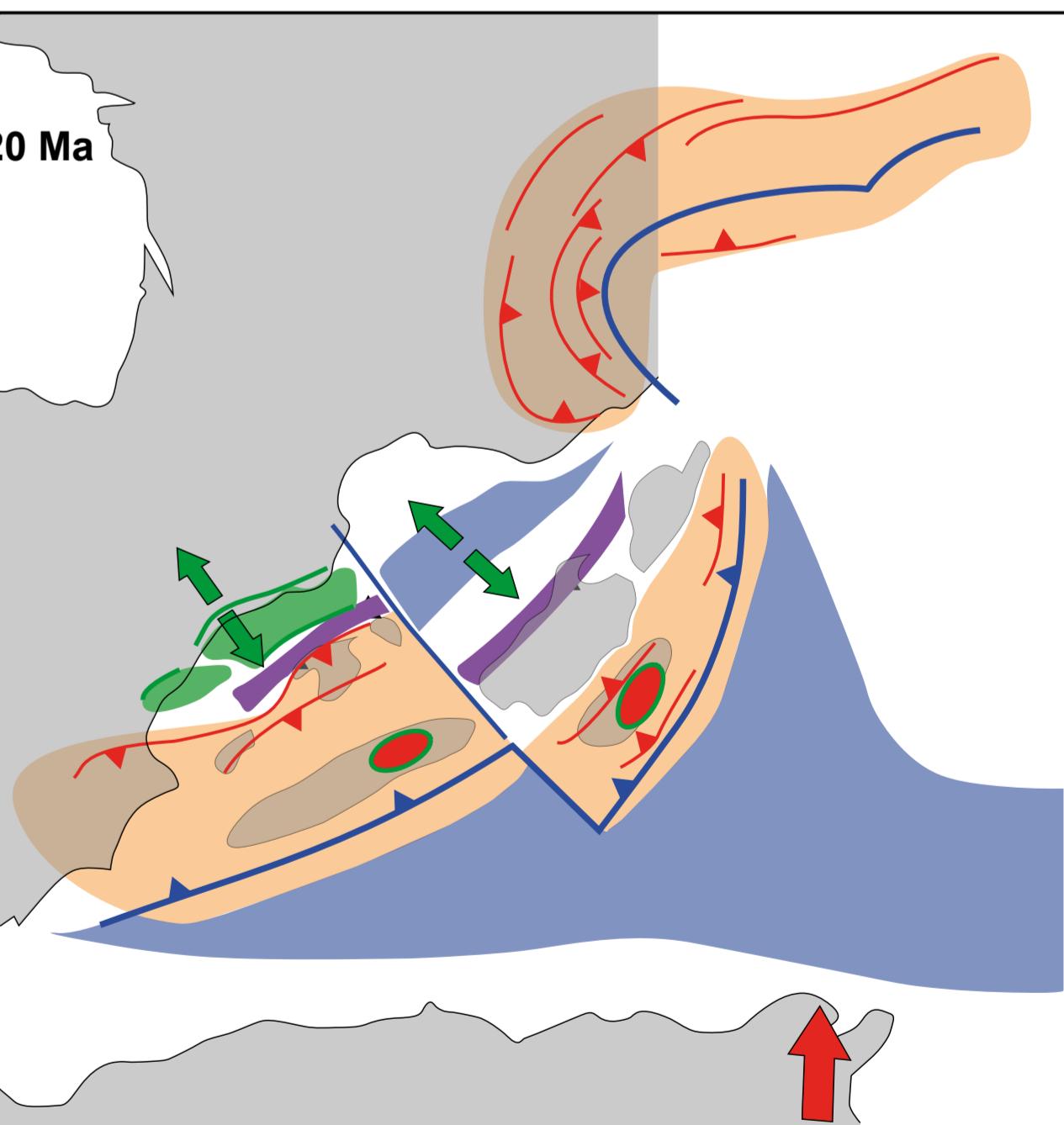
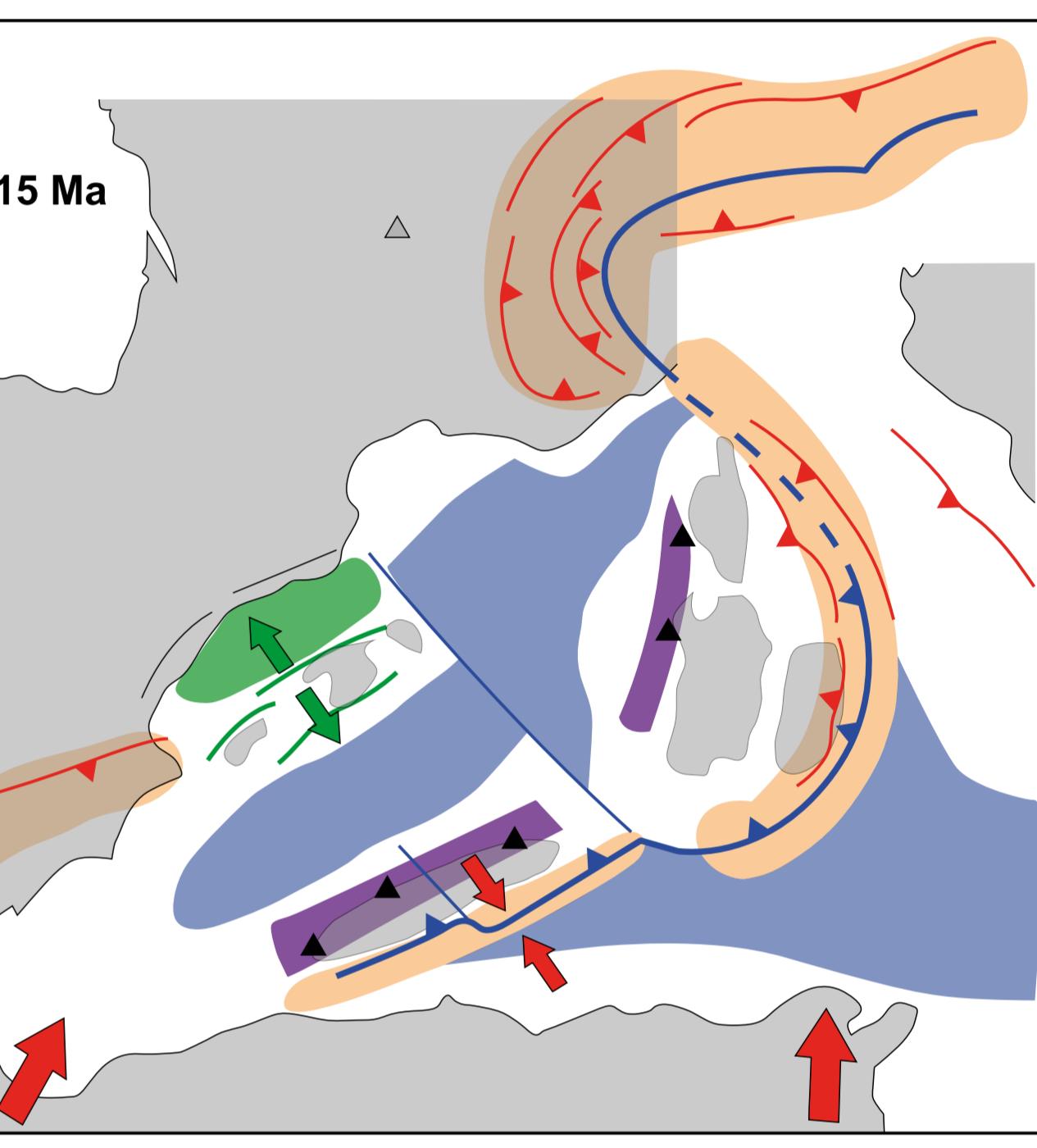
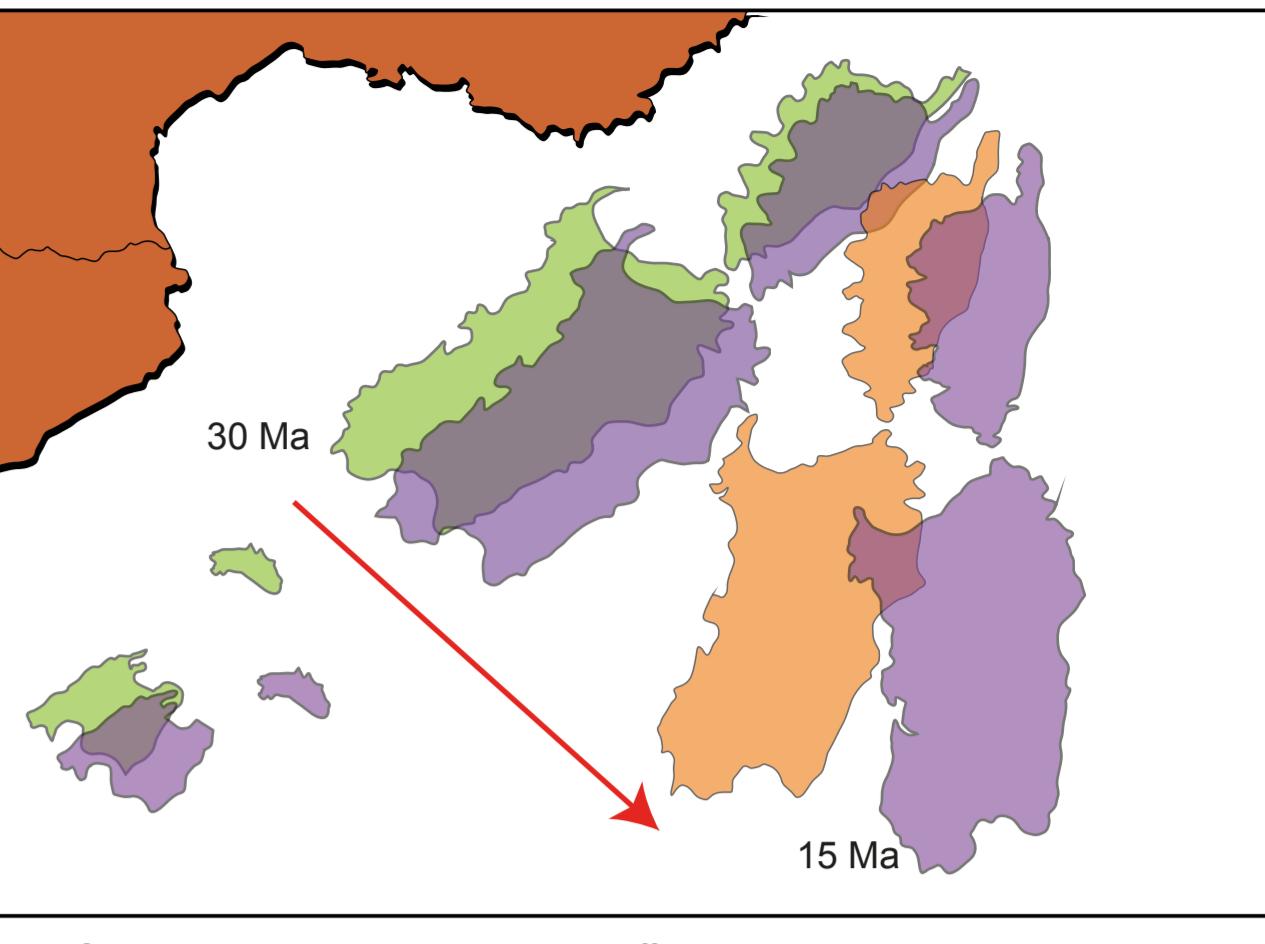
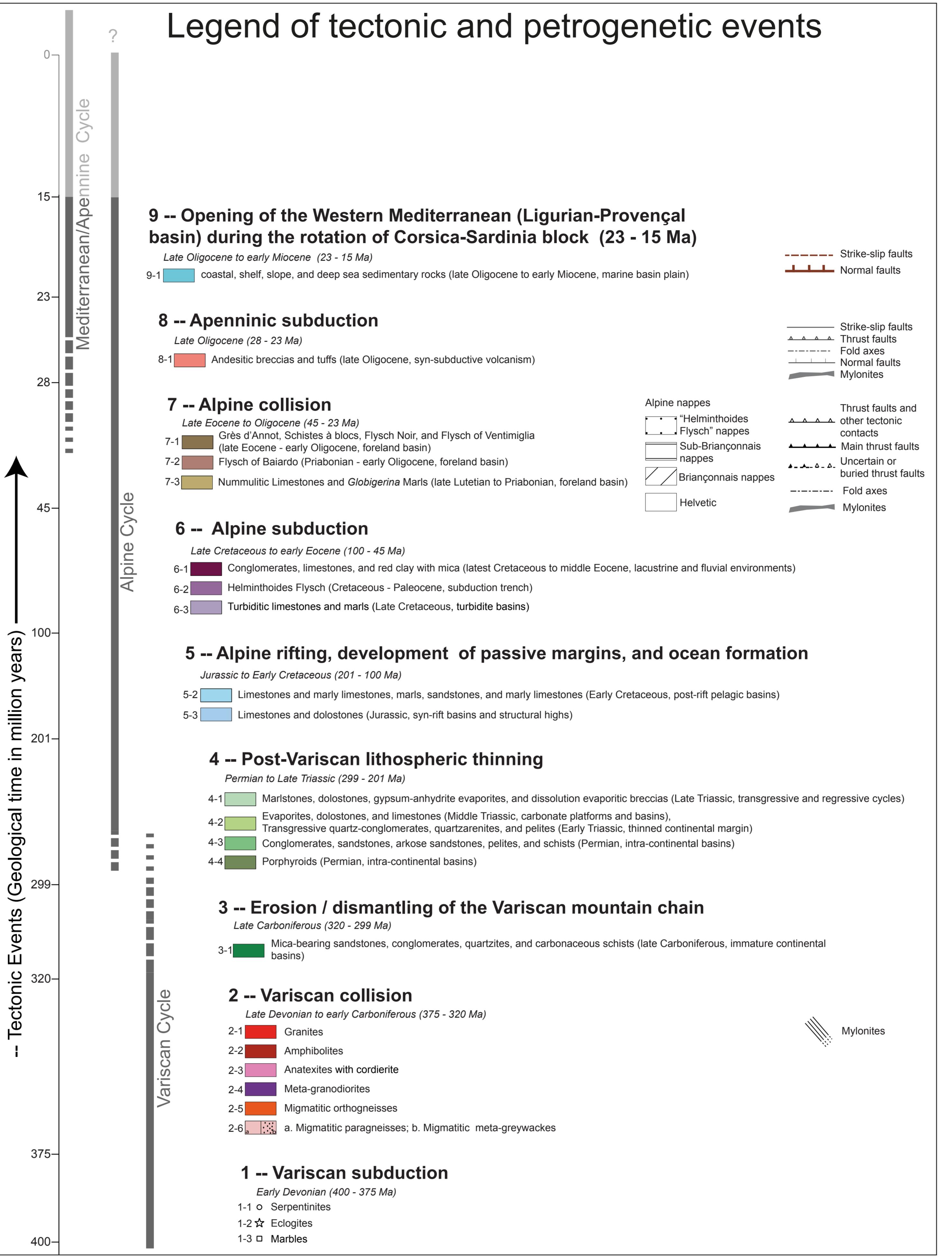
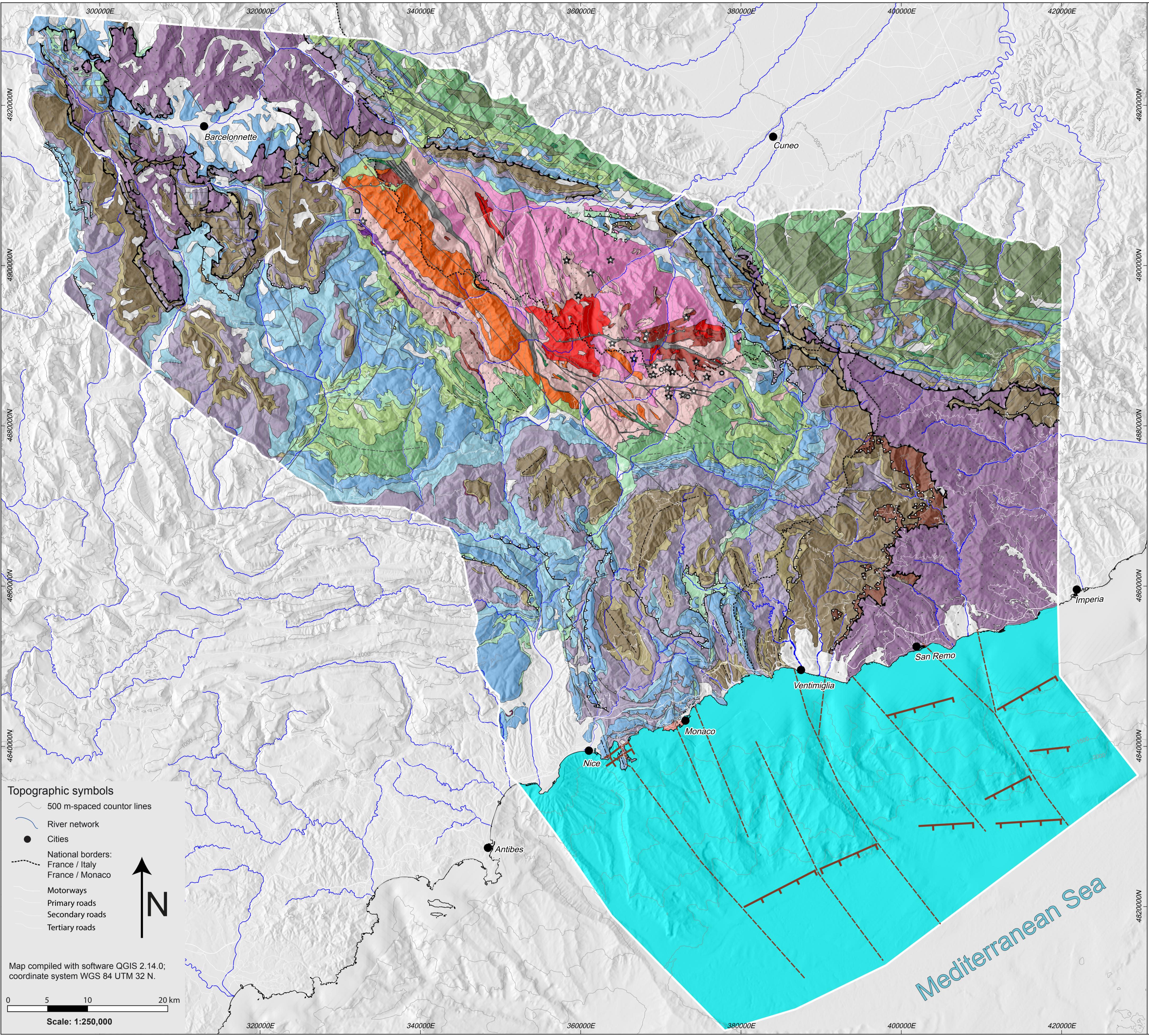


Fig. 1 - Aerial view towards Menton Riviera (midway between Monaco and San Remo, on the map), to the summits of the Maritime Alps (Argentera, Mercantour, Gelas, Margueris, and Mongioie). The slope is reminiscent of the rupture of the Alpine belt that occurred from the late Oligocene to early Miocene. The slope is continuous from the 3000 m high summits, down to the abyssal plain, at depth of ~2000 m, at the base of the continental escarpment. The abyssal sea floor descends gently from a depth of ~2500 to ~2800 m towards the island of Corsica. Steep submarine canyons serve as conduits between the continental margin and abyssal depths for detrital material derived from the erosion of the Alps. Event 9.

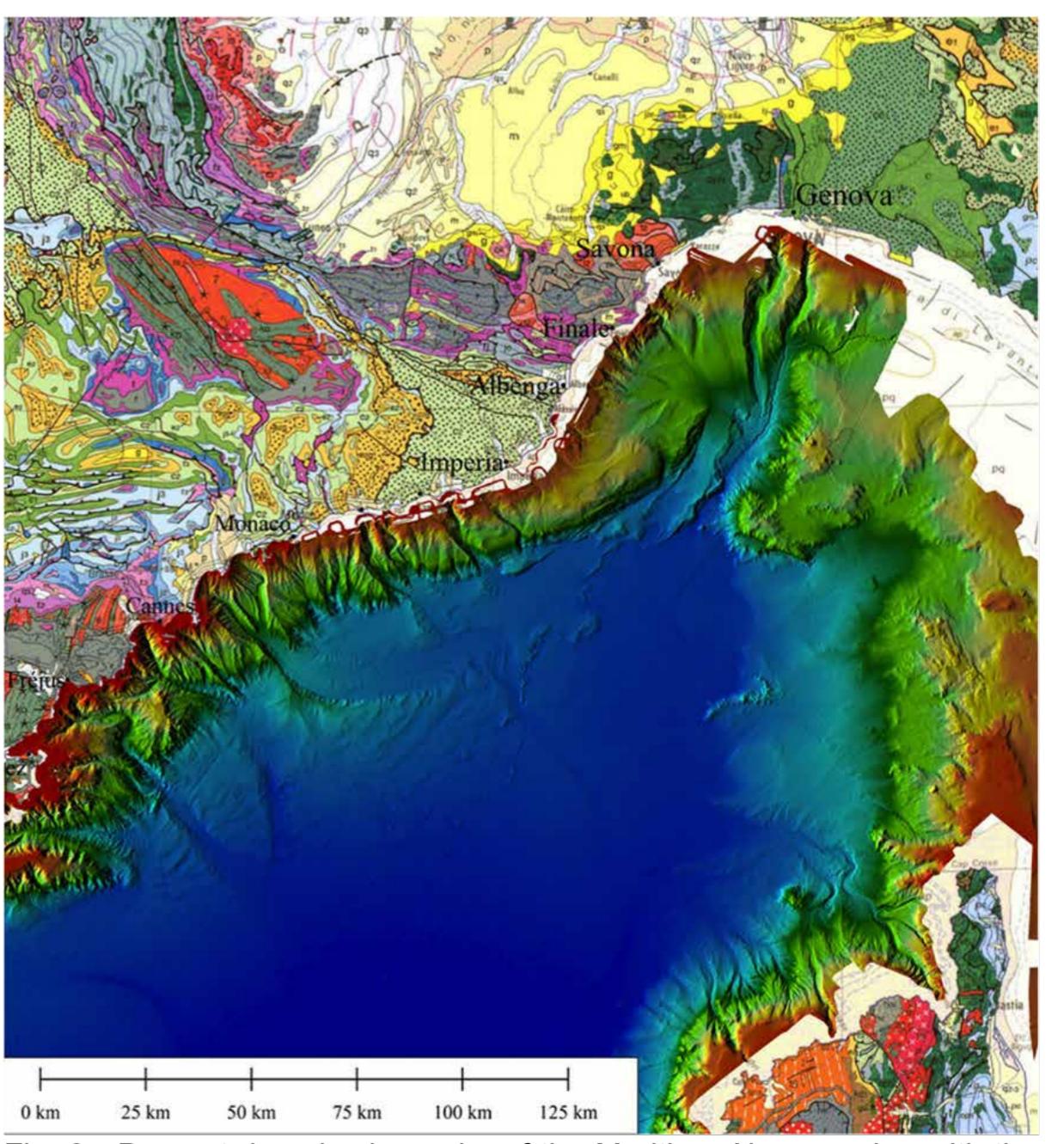


Fig. 2 - Present-day physiography of the Maritime Alps merging with the Ligurian-Provençal marine basin with no or minimal submarine continental shelf (zones with poor data highlighted in white). The continental geology is derived from the reviewed 1:1million scale map of France and Alpine areas, 6th edition, Charnain et al., 2003.